J.RADIOANAL.NUCL.CHEM.,LETTERS 117 /6/ 419-424 /1987/

CONTENTS OF VOLUME 117

No. 1.

N. Efe, S. Akman, P. Arikan /Ankara, Turkey/ /Accepted 30 January 1987/: Determination of rare earth elements and thorium in britholite ore by energy dispersive X-ray fluorescence spectrometry 1

B.L. Zhuikov, G.S. Popeko, H.D. Ortega /Moscow, USSR/ /Accepted 30 January 1987/: A new approach to chemical concentration in activation analysis for some noble and rare elements 11

V. Jovanović /Zagreb, Yugoslavia/ /Accepted 30 January 1987/: Standardization of quality control methods for ^{99m}Tc radiopharmaceuticals 23

S.C. Archimandritis, Al.K. Tsolis /Athens and Patras, Greece/ /Accepted 30 January 1987/: Biodistribution of the bone imaging agents ^{99m}Tc-DHPE and ^{99m}Tc-MDP in rats 35

H. Yoshioka, K. Hasegawa, T. Kambara /Shizuoka, Japan/ /Accepted 4 February 1987/: Redox sub-superequivalence method of radiometric analysis. Determination of trace amount of antimony 47

V. Sivamoorthy, K.V. Varma, K.V. Muralikrishna, B. Rangamannar /Tirupati, India/ /Accepted 4 February 1987/: Determination of palladium by radiochemical displacement 61

Erratum 67

Elsevier Sequoia S. A., Lausanne
Akadémiai Kiadó, Budapest

No. 2.

D.K. Teherani /Seibersdorf, Austria/ Accepted 3 February 1987/: Accumulation of ^{103}Ru, ^{137}Cs and ^{134}Cs in fruitbodies of various mushrooms from Austria after the Chernobyl incident 69

K. Batarekh, D.K. Teherani /Seibersdorf, Austria/ /Accepted 3 February 1987/: Determination of polonium-210 in cigarettes from Syria 75

M. Contineanu, O. Constantinescu, M. Ciureanu /Bucharest, Roumania/ /Accepted 9 February 1987/: ESR study of the radiolysis of polycrystalline benzene-2,1-diazoquinone--4-sulphonic acid 81

M.V. Krishnamurthy, M.S. Nagar, N.S. Hon /Bombay, India/ /Accepted 9 February 1987/: Preparation and characterization of plutonium/IV/ phenyl acetate and plutonium/IV/α-naphthyl acetate 91

I. Brissaud /Orsay, France/ A. Houdayer, P.F. Hinrichsen /Montréal, Quebec, Canada/ /Accepted 9 February 1987/: PIXE analysis of geostandards at the University of Montreal 99

P. Regnier, I. Brissaud /Gif sur Yvette and Orsay, France/ /Accepted 10 February 1987/: On depth profiling from PIXE yields 111

J.H. Zhang, B.R. Bao, Y.X. Xia, J.B. Zhu /Shanghai, China/ /Accepted 11 February 1987/: The dependence of build-up ^{233}U, ^{232}U, ^{233}Pa and fission products from ThO_2 irradiated in HFETR on integral thermal neutron fluxes and neutron spectra 121

E. Paleodimopoulos, T. Paradellis /Athens, Greece/ /Accepted 16 February 1987/: Radiochemical purification of cadmium-109 produced by the $^{109}Ag/p,n/$ reaction 129

No. 3.

D.K. Teherani /Seibersdorf, Austria/ /Accepted 3 February 1987/: Trace elements analysis in rice 133

E.M. Bem /Lódź, Poland/, C.M. Elson /Halifax, Nova Scotia, Canada/ /Accepted 16 February 1987/: Preconcentration of silver from rocks by extraction with bismuth dibenzyldithiocarbamate prior to neutron activation analysis 145

R.W. Atcher /Bethesda, MD, USA/, J.J. Hines, A.M. Friedman /Argonne, IL, USA/ /Accepted 16 February 1987/: A remote system for the separation of ^{228}Th and ^{224}Ra 155

P. Rauch, L. Fukal /Prague, Czechoslovakia/, J. Prošek /Potěhy, Czechoslovakia/, P. Březina, J. Káš /Prague, Czechoslovakia/ /Accepted 16 February 1987/: Radioimmunoassay of aflatoxin M_1 163

H.A. Das, F.H.M. Spit /Amsterdam, The Netherlands/ /Accepted 16 February 1987/: The measurement of the diffusion of phosphorus in oligocrystalline silicon with ^{32}P as radiotracer. A comparison of solid and liquid scintillation counting 171

K. Süvegh, Cs. Szeles, A. Vértes /Budapest, Hungary/ M.L. White, H. Leidheiser, Jr. /Bethlehem, PA, USA/ /Accepted 13 March 1987/: Positron implantation in polymer coatings 183

Announcement 195

No. 4.

G. Wunderlich, S. Fischer, R. Dreyer, W.-G. Franke /Dresden, GDR/ /Accepted 18 February 1987/: A simple method for labelling proteins with ^{211}At via diazotized aromatic diamine 197

L.I. Guseva, G.S. Tikhomirova /Moscow, USSR/, G.V. Buklanov, Zen Zin Phar /Dubna, USSR/, I.A. Lebedev, N.V. Katargin, B.F. Myasoedov /Moscow, USSR/ /Accepted 23 February 1987/: Isolation and ion exchanging behaviour of mendelevium/II/ 205

L. Bapat /Pune, India/ /Accepted 23 February 1987/: Polarization and ESR studies of thermally pretreated γ-irradiated TiO_2 217

T. Adachi /Tokai-mura, Japan/, K. Kammerichs, L. Koch /Karlsruhe, FRG/ /Accepted 26 February 1987/: Inherent isotope dilution analysis of ^{237}Np in spent nuclear fuels 233

A.N. Nigam, R.P. Tripathi, M.L. Jangid, M.P. Chacharkar /Jodhpur, India/ /Accepted 26 February 1987/: Studies on corrosion of mild steel by water using Mössbauer spectroscopy 243

A.V. Danilenko, M.B. Muratbekov /Alma-Ata, USSR/ /Accepted 2 March 1987/: Radiation-catalytic oxidation of ammonium bisulphite by molecular oxygen in the presence of chromium/III/ 255

No. 5.

J. Stary, K. Kratzer /Prague, Czechoslovakia/ /Accepted 2 March 1987/: Changes of intracellular ionic concentrations and membrane transport in alga Hydrodictyon reticulatum 265

S. Fischer, R. Dreyer, S. Albrecht /Dresden, GDR/ /Accepted 2 March 1987/: Pseudohalogen compounds of astatine: Synthesis and characterization of At/I/-tricyanomethanide- and At/I/-azide-compounds 275

O.V. Isaeva, Yu.V. Razskazovsky, M.Ya. Mel'nikov /Moscow, USSR/ /Accepted 5 March 1987/: Photochemical reactions of radical-anions $H_2S_2^-$ in solid phase 285

T. Gangaiah, P. Ramadevi, G.R.K. Naidu /Tirupati, India/ /Accepted 10 March 1987/: Isotope exchange study of tris/diethyl dithiocarbamate/ chromium/III/ complex 299

L. Wilhelmová, M. Tomášek, K. Rybáček /Prague, Czechoslovakia/ /Accepted 10 March 1987/: Aerosol and gaseous radioiodine concentration in the air of Prague after the Chernobyl accident 305

M. Kosmulski /Lublin, Poland/ /Accepted 11 March 1987/: Kinetics of heterogeneous isotope exchange in the systems containing porous particles 311

G.V. Putirskaya, L.P. Kovács, M. Győr, A. Rockenbauer /Budapest, Hungary/ /Accepted 30 March 1987/: A simple capillary for ESR measurements of samples in aqueous media 321

No. 6.

S. Usuda, H. Yoshikawa, M. Magara, Y. Hatsukawa /Ibaraki, Japan/ /Accepted 30 March 1987/: Rapid anion-exchange separation of berkelium with mineral acid-methyl alcohol mixtures 329

G. Barci, J. Dalmasso, G. Ardisson /Nice, France/ /Accepted 31 March 1987/: Chernobyl fallout measurements in some Mediterranean biotas 337

A.N. Chetty, P. Ramadevi, G.R.K. Naidu /Tirupati, India/ /Accepted 1 April 1987/: Isotope exchange between bis/diethyl dithiocarbamate/ copper/II/ complex and Cu^{2+} ion 347

Z. Hölgye /Prague, Czechoslovakia/ /Accepted 2 April 1987/: Volatility of ruthenium during heating of a residue containing calcium phosphate 353

S.V. Zatonsky, O.S. Povolotskaya /Moscow, USSR/ /Accepted 6 April 1987/: On the radiation resistance of crown ethers 361

M. Hanisch, F. Helus, K. Layer, M. Maier-Borst /Heidelberg, FRG/ /Accepted 6 April 1987/: Yield ratio of [^{11}C]-CO_2, [^{11}C]-CO and [^{11}C]-CH_4 from the irradiation of N_2/H_2-mixtures in a gas target 369

L. Pieńkowski, J. Jastrzębski, J. Tys, T. Batsch, P. Jaracz, W. Kurcewicz, S. Mirowski, G. Szeflińska, Z. Szefliński, B. Szweryn, Z. Wilhelmi, E.T. Józefowicz /Warsaw, Poland/ /Accepted 16 April 1987/: Isotopic composition of the radioactive fallout in Eastern Poland after the Chernobyl accident 379

Index to Volume 117 411

Contents of Volume 117 419